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PTO/SB/05 REV 1 (12/97)

Approved for use through 09/30/2000. omb 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  <small>16560 (Only for new nonprovisional applications under 37 CFR 1.53(b))</small>		Attorney Docket No.  <b>SJO920000165US2</b>
First Inventor or Application Identifier		<b>Ho et al</b>
Title	READ HEAD HAVING A TUNNEL JUNCTION SENSOR WITH A FREE LAYER BIASED BY EXCHANGE COUPLING WITH INSULATING ANTIFERROMAGNETIC (AFM) LAYERS	
Express Mail Label No.		<b>EL 749517939 US</b>

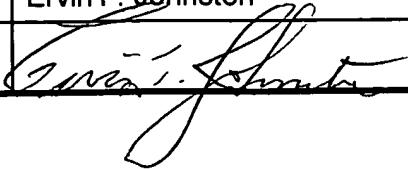
<b>APPLICATION ELEMENTS</b> <i>See MPEP chapter 600 concerning utility patent application contents.</i>		<b>ADDRESS TO:</b> Mail Stop: Patent Application Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification [Total Pages <u>20</u>] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R &amp; D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention</p> <p>- Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure</p> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total Sheets <u>11</u>]</p> <p>4. <input checked="" type="checkbox"/> Oath or Declaration [Total Pages <u>2</u>] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below] i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>5. <input checked="" type="checkbox"/> Incorporation by Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p> <p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement Verifying identity</p>		
<b>ACCOMPANYING APPLICATION PARTS</b>		
<p>8. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>9. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney</p> <p>10. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>11. <input checked="" type="checkbox"/> Information Disclosure Statements <input type="checkbox"/> Copies of (IDS) w/PTO-1449 &amp; PTO-892 <input type="checkbox"/> IDS Citations</p> <p>12. <input checked="" type="checkbox"/> Preliminary Amendment</p> <p>13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>14. <input type="checkbox"/> Small Entity <input type="checkbox"/> Statement filed in prior application, Statement(s) <input type="checkbox"/> Status still proper and desired</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>16. <input checked="" type="checkbox"/> Other: <u>Express Mail Certification</u></p>		

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

Continuation  Divisional  Continuation-in-part (CIP)  
Prior application information: Examiner W. J. Klimowicz Group/Art Unit 2652 of prior application No.: 10/054,656

18. CORRESPONDENCE ADDRESS

<input type="checkbox"/> Customer Number or Bar Code Label <i>(Insert Customer No. or Attach bar code label here)</i>		<input type="checkbox"/> or <input checked="" type="checkbox"/> Correspondence address below
ADDRESS	International Business Machines Corporation IP Law L2PA/010 5600 Cottle Road San Jose, California 95193	
	Telephone: 808-661-1197 (Ervin F. Johnston) FAX: 808-661-9797	
COUNTRY	USA	

Name (Print/Type)	Ervin F. Johnston	Registration No. (Attorney/Agent)	20,190
Signature			Date
			April / 2004

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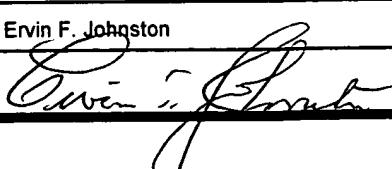
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<p><b>16569</b> <b>U.S. PTO</b> <b>FEE TRANSMITTAL</b> Patent fees are subject to annual revision on October 1. These are the fees effective November 10, 1998. Small entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12 See 37 C.F.R. §§ 1.27 and 1.28</p>		Complete If Known																																																																																																																																																																																																																																																								
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<p><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:</p> <p>Deposit Account Number <b>09-0466</b> Deposit Account Name <b>International Business Machines Corp.</b></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17      Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance. 37 CFR 1.311(b)</p>		<p><b>3. 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SUBMITTED BY		COMPLETE (if applicable)	
Typed or Printed Name	Ervin F. Johnston	Reg. Number	20,190
Signature		Date	April 17, 2004

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